

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Landon B. Vines *et al.*

Serial No. 09/871,507

Filed: 5/31/2001

For: A CMP Polisher Substrate Removal Control  
Mechanism and Method

Group: 3723

Examiner: Willie Berry, Jr.

Docket No.: US 018074

**RESPONSE TO MARCH 13, 2002 OFFICE ACTION**

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

In response to the Office Action dated March 13, 2002, please consider the following amendments and remarks.

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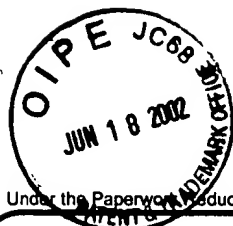
**In the Specification**

Please replace paragraph 1 on page 9 with the following:

A1  
Referring now to FIGS. 6A and 6B, there will be described a method for using a slurry bar with high-pressure spray. Referring to FIG. 6A, wafers are inversely mounted on the carrier arms 430. The slurry is dispensed onto the pad 410 through a slurry dispense tube on the spray bar 420. The wafer carriers 430 bias the wafers against the pad 410. During this time both the pad 410 and the wafer carriers 430 are rotating, with the pad 410 rotating between 30 – 60 RPM.

Please replace paragraph 4 on page 10 with the following:

A2  
Additionally, referring now to FIG. 8, there is shown the prior art removal method defect density as compared to the high-pressure spray bar defect density. As shown, experimental use of the slurry dispense bar with high-pressure spray of the present inventions provides for a 15.15% average reduction in defect density



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Filing Date 05/31/2001

First Named Inventor Landon B. Vines

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8

Attorney Docket Number US 018074

## ENCLOSURES (check all that apply)

- ☐ Fee Transmittal Form
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- ☐ After Final
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- ☐ Certified Copy of Priority Document(s)
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- ☐ After Allowance Communication to Group
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